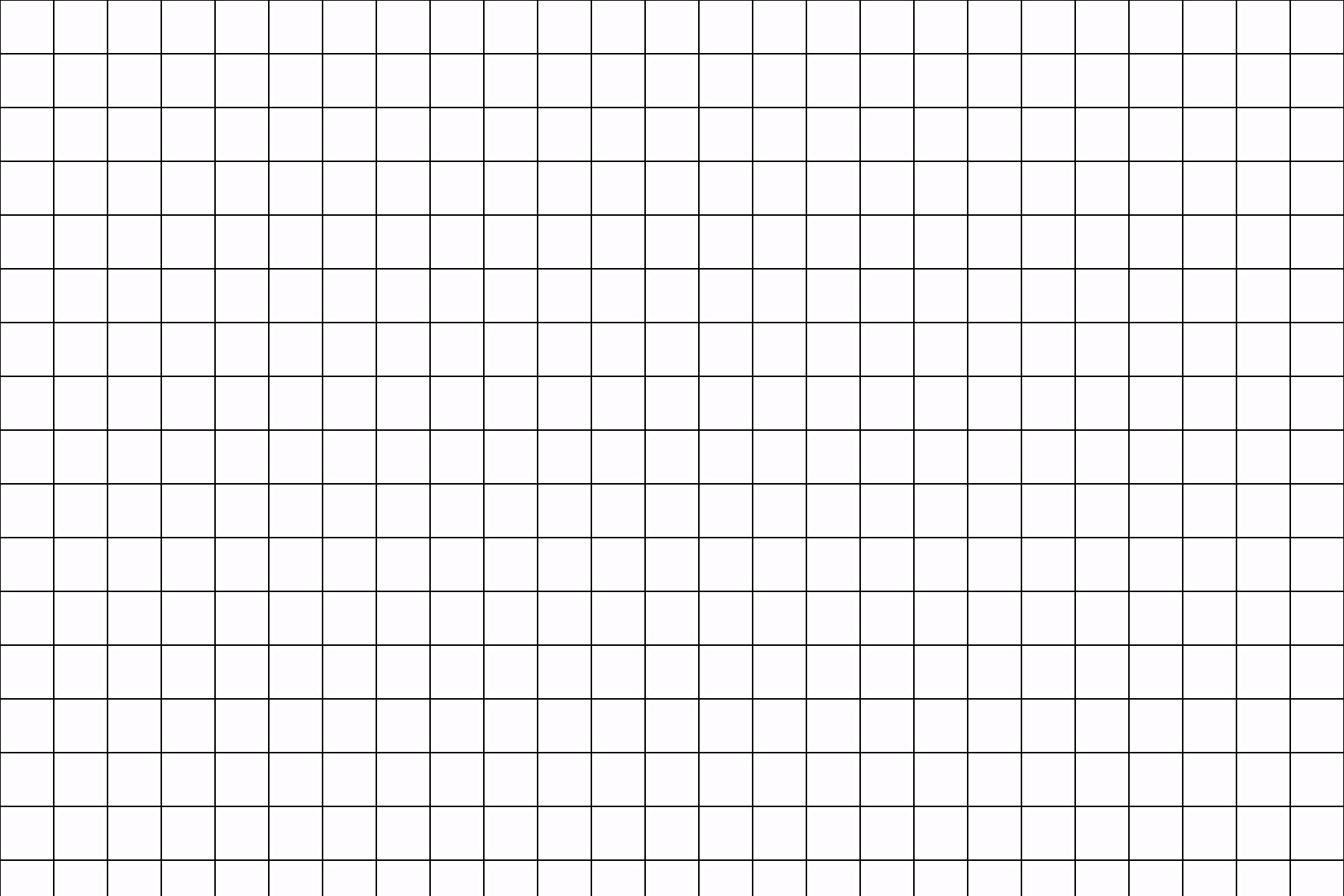
**ATHS FC – Math Department Al Ain**

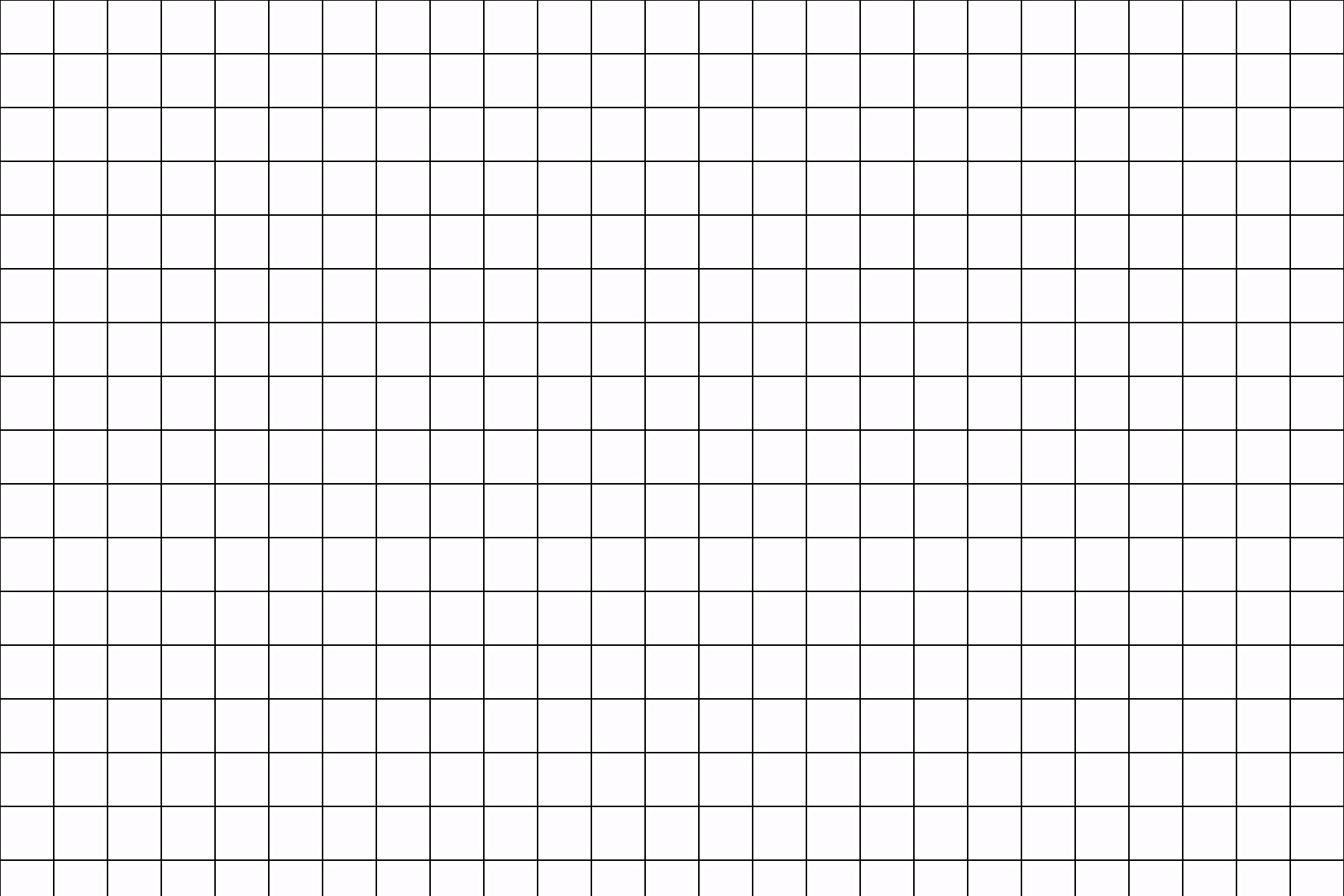
**Assignment 1 (**Term I**)-Grade 11 Regular**

|  |  |  |  |
| --- | --- | --- | --- |
| **Section** |  | **Date** |  |
| **Name** |  | **Lesson** | **12.7 Graphing Trigonometric Functions**  **12.8 Translations of Trigonometric Graph** |
| **ID** |  | **Marks** | **/5** |

Q1) Find the amplitude (or asymptotes) and period of each function. Then graph the function.





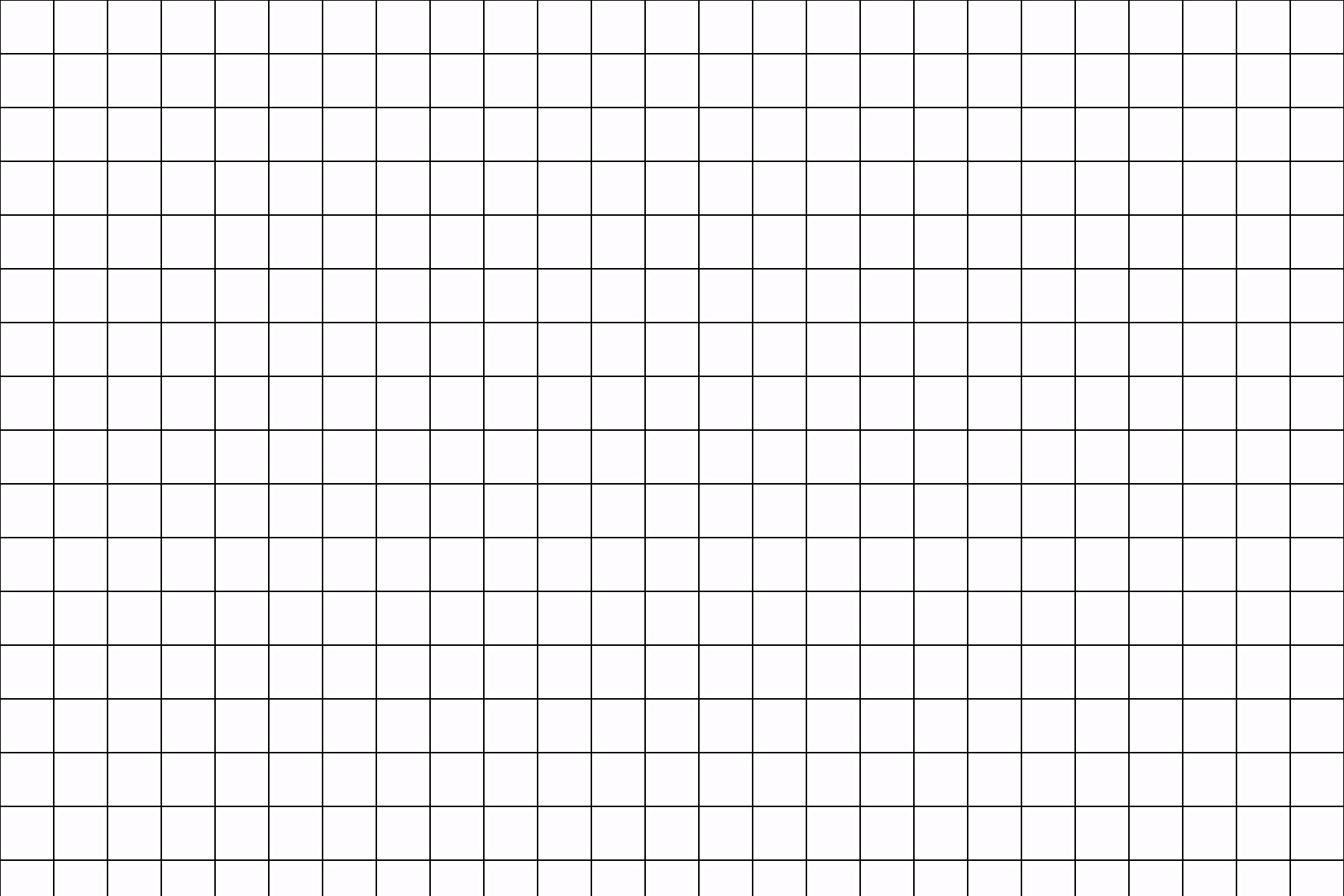




Q2) State the amplitude, period, phase shift, and vertical shift for each function. Then graph the function.

a)

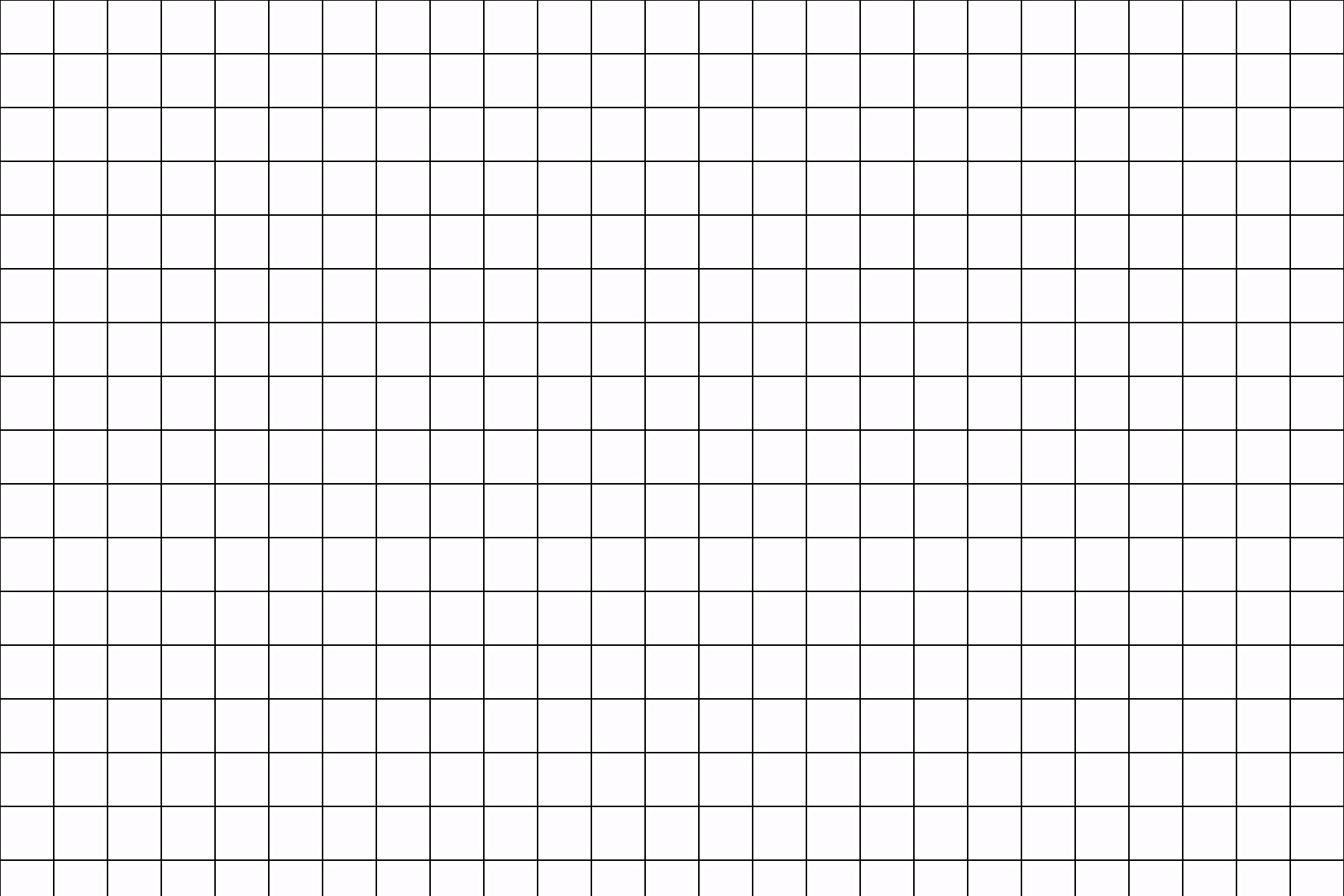
Amplitude: Period:

Phase shift: Vertical shift

b)

Amplitude: Period:

Phase shift: Vertical shift



Q3) **WEATHER** The function,where *t* is in months and *t*=0 corresponds to April 15, models the average high temperature in degrees Fahrenheit in Centerville.

1. Determine the period of this function. What does this period represent?
2. What is the maximum high temperature and when does this occur?

Q4) Write a trigonometric function that has amplitude of 5 and period of 720. Then graph the function.

Q5) Match the function with its graph.

